🞮 GameHub - Tutorial: Sistema de Comunidade

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1. Entendendo a Estrutura Atual



O que você já tem:



```
app/
                     ← Sistema de temas e navegação
    _layout.tsx
    - +not-found.tsx
                      ← Página de erro 404
    - beltranis.tsx
                     ← Perfil do player
                      ← Demo de componentes
    – xulambs.tsx
    - constants/
    theme.ts
                     ← Temas e estilos
    contexts/
      — ThemeContext.tsx ← Contexto de temas
```

Sistema de Temas

Você já tem temas prontos que podem ser trocados dinamicamente:

• **Retro**: Estilo cyberpunk/neon

• Minimal: Estilo limpo e moderno

• Dark: Escuro profundo

• Light: Claro e clean

Como funciona:



// ThemeContext fornece:
themeName // Nome do tema atual
changeTheme // Função para trocar tema

2. Conceitos Importantes

⊘ Links Úteis para Estudar:

TypeScript Basics

- TypeScript Handbook
- O que são tipos e interfaces
- Por que usar TypeScript no React Native

React Hooks

- <u>useState</u> Gerenciar estados
- useContext Acessar contextos
- useEffect Efeitos colaterais

Styled Components

- Styled Components Native
- Como estilizar componentes
- Props dinâmicas em estilos

React Native Components

- ScrollView Lista com scroll
- FlatList Lista otimizada
- <u>TouchableOpacity</u> Botões tocáveis

3. Planejamento da Comunidade

of O que vamos construir:



Estrutura de Dados:

COMUNIDADE



typescript

```
Post = {
  id: string
  author: { name, avatar, level }
  content: string
  image?: string
  timestamp: Date
  likes: number
  comments: number
  shares: number
}
```

Passo 1: Criar Tipos TypeScript



Criar arquivo types/community.ts



```
// types/community.ts
export interface User {
 id: string;
 name: string;
 avatar: string; // Iniciais para avatar
 level: number;
 rank: string; // "Bronze", "Silver", "Gold", etc.
export interface Post {
 id: string;
 author: User;
 content: string;
 image?: string; // URL da imagem (opcional)
 timestamp: Date;
 likes: number;
 comments: number:
 shares: number;
 isLiked: boolean; // Se o usuário atual curtiu
export interface Comment {
 id: string;
 author: User;
```

Por que fazer isso?

content: string;
timestamp: Date;

- TypeScript ajuda a evitar erros
- Autocomplete no editor
- Documentação automática do código

Estude: <u>TypeScript Interfaces</u>

Passo 2: Criar Componente de Post

Criar arquivo components/PostCard.tsx



```
import React from "react";
import { View, Alert } from "react-native";
import styled, { DefaultTheme } from "styled-components/native";
import { spacing, typography } from "../constants/theme";
import { Post } from "../types/community";
// PROPS DO COMPONENTE
interface PostCardProps {
 post: Post;
 onLike: (postId: string) => void;
 onComment: (postId: string) => void;
 onShare: (postId: string) => void;
// COMPONENTE PRINCIPAL
export const PostCard: React.FC<PostCardProps> = ({
 post,
 onLike,
 onComment.
 onShare,
}) => {
 // Formatar tempo relativo (ex: "há 2 horas")
 const getTimeAgo = (date: Date): string => {
  const seconds = Math.floor((new Date().getTime() - date.getTime()) / 1000);
  if (seconds < 60) return "agora";
  if (seconds < 3600) return `${Math.floor(seconds / 60)}min`;
  if (seconds < 86400) return `${Math.floor(seconds / 3600)}h`;
  return `${Math.floor(seconds / 86400)}d`;
 };
 return (
  <Card>
   {/* HEADER DO POST */}
   <Header>
    <Avatar>
      <AvatarText>{post.author.avatar}</AvatarText>
    </Avatar>
```

```
<UserInfo>
   <UserName>{post.author.name}</UserName>
   <MetaInfo>
    Lvl {post.author.level} • {post.author.rank} • {getTimeAgo(post.timestamp)}
   </MetaInfo>
  </UserInfo>
</Header>
 {/* CONTEÚDO DO POST */}
<Content>{post.content}</Content>
 {/* IMAGEM (SE HOUVER) */}
 {post.image && (
  <PostImage source={{ uri: post.image }} resizeMode="cover" />
)}
 {/* ESTATÍSTICAS */}
<Stats>
  <StatText>{post.likes} likes</StatText>
  <StatText>•</StatText>
  <StatText>{post.comments} comentários</StatText>
  <StatText>•</StatText>
  <StatText>{post.shares} compartilhamentos</StatText>
</Stats>
{/* BOTÕES DE AÇÃO */}
<Actions>
  <ActionButton onPress={() => onLike(post.id)}>
   <ActionIcon>{post.isLiked ? "♥" : " □ "}</ActionIcon>
   <ActionText>Like</ActionText>
  </ActionButton>
  <ActionButton onPress={() => onComment(post.id)}>
   <ActionText>Comentar</ActionText>
  </ActionButton>
  <ActionButton onPress={() => onShare(post.id)}>
   <a href="mailto:</a> <a href="mailto:ActionText">ActionText</a>
  </ActionButton>
</Actions>
</Card>
```

```
);
};
// COMPONENTES ESTILIZADOS
const Card = styled.View`
 background-color: ${({ theme }: { theme: DefaultTheme }) => theme.surface};
 border-radius: 15px;
 padding: ${spacing.md}px;
 margin-bottom: ${spacing.md}px;
 border: 1px solid ${({ theme }: { theme: DefaultTheme }) => theme.border};
const Header = styled.View`
 flex-direction: row;
 align-items: center;
 margin-bottom: ${spacing.md}px;
const Avatar = styled.View`
 width: 45px;
 height: 45px;
 border-radius: 22.5px;
 background-color: ${({ theme }: { theme: DefaultTheme }) => theme.primary};
justify-content: center;
 align-items: center;
 margin-right: ${spacing.sm}px;
const AvatarText = styled.Text`
 color: ${({ theme }: { theme: DefaultTheme }) => theme.background};
 font-size: ${typography.sizes.md}px;
 font-weight: 600;
const UserInfo = styled.View`
 flex: 1;
const UserName = styled.Text`
 font-size: ${typography.sizes.md}px;
 font-weight: 600;
```

```
color: ${({ theme }: { theme: DefaultTheme }) => theme.text};
const MetaInfo = styled.Text`
 font-size: ${typography.sizes.xs}px;
 color: ${({ theme }: { theme: DefaultTheme }) => theme.textMuted};
 margin-top: 2px;
const Content = styled.Text`
 font-size: ${typography.sizes.md}px;
 color: ${({ theme }: { theme: DefaultTheme }) => theme.text};
 line-height: 22px;
 margin-bottom: ${spacing.md}px;
const PostImage = styled.Image`
 width: 100%;
 height: 200px;
 border-radius: 12px;
 margin-bottom: ${spacing.md}px;
const Stats = styled.View`
 flex-direction: row;
 gap: ${spacing.xs}px;
 padding-bottom: ${spacing.sm}px;
 border-bottom-width: 1px;
 border-bottom-color: ${({ theme }: { theme: DefaultTheme }) => theme.border};
 margin-bottom: ${spacing.sm}px;
const StatText = styled.Text`
 font-size: ${typography.sizes.xs}px;
 color: ${({ theme }: { theme: DefaultTheme }) => theme.textMuted};
const Actions = styled.View`
 flex-direction: row;
justify-content: space-around;
const ActionButton = styled.TouchableOpacity`
 flex-direction: row;
```

```
align-items: center;
gap: ${spacing.xs}px;
padding: ${spacing.sm}px;

;;

const ActionIcon = styled.Text'
font-size: 20px;

;;

const ActionText = styled.Text'
font-size: ${typography.sizes.sm}px;
color: ${({ theme }: { theme: DefaultTheme }) => theme.textSecondary};
font-weight: 600;

;;
```

O que fizemos:

- 1. Criamos interface para as props
- 2. Componente recebe um post e callbacks
- 3. Z Exibe avatar, nome, conteúdo, imagem
- 4. Botões interativos (Like, Comment, Share)
- 5. Estilos usando o tema dinâmico



Passo 3: Tela de Comunidade

Criar arquivo community.tsx



```
import React, { useState } from "react";
import { Alert, KeyboardAvoidingView, Platform } from "react-native";
import styled, { DefaultTheme } from "styled-components/native";
import { spacing, typography } from "./constants/theme";
import { Post } from "./types/community";
import { PostCard } from "./components/PostCard";
// DADOS MOCKADOS (simulados)
const MOCK_POSTS: Post[] = [
 {
  id: "1",
  author: {
   id: "user1",
   name: "ShadowGamer",
   avatar: "SG",
   level: 85.
   rank: "Diamante",
  content: "Acabei de zerar Dark Souls pela 10<sup>a</sup> vez! Quem mais é viciado nesse jogo? A b ",
  timestamp: new Date(Date.now() - 2 * 60 * 60 * 1000), // 2h atrás
  likes: 42,
  comments: 8,
  shares: 3,
  isLiked: false,
  id: "2",
  author: {
   id: "user2",
   name: "ProGamer99",
   avatar: "PG",
   level: 92,
   rank: "Mestre",
  },
  content: "Alguém quer jogar Valorant agora? Preciso de um time pra ranked!",
  image: "https://picsum.photos/400/300?random=1",
  timestamp: new Date(Date.now() - 5 * 60 * 60 * 1000), // 5h atrás
  likes: 15,
  comments: 12,
  shares: 1,
```

```
isLiked: true,
 },
  id: "3",
  author: {
   id: "user3",
   name: "NinjaKiller",
   avatar: "NK",
   level: 73,
   rank: "Platina",
  },
  content: "Setup novo chegou! RTX 4090 + i9-13900K. Agora sim vou dominar! ■ / ",
  image: "https://picsum.photos/400/300?random=2",
  timestamp: new Date(Date.now() - 24 * 60 * 60 * 1000), // 1 dia atrás
  likes: 128,
  comments: 34,
  shares: 12,
  isLiked: false,
 },
];
// COMPONENTE PRINCIPAL
export default function CommunityScreen() {
 const [posts, setPosts] = useState<Post[]>(MOCK POSTS);
 const [newPostText, setNewPostText] = useState("");
 // ======= HANDLERS =======
 const handleLike = (postId: string) => {
  setPosts((prevPosts) =>
   prevPosts.map((post) =>
    post.id === postId
      ? {
        ...post,
        likes: post.isLiked? post.likes - 1: post.likes + 1,
        isLiked: !post.isLiked,
      : post
   )
 };
```

```
const handleComment = (postId: string) => {
Alert.alert("Comentar", 'Abrindo comentários do post ${postId}');
};
const handleShare = (postId: string) => {
 setPosts((prevPosts) =>
  prevPosts.map((post) =>
   post.id === postId
     ? \{ ...post, shares: post.shares + 1 \}
    : post
  )
 );
Alert.alert("Compartilhado!", "Post compartilhado com sucesso!");
};
const handlePublishPost = () => {
 if (newPostText.trim() === "") {
  Alert.alert("Erro", "Digite algo antes de publicar!");
  return;
 }
 const newPost: Post = {
  id: Date.now().toString(),
  author: {
   id: "currentUser",
   name: "Você",
   avatar: "VC",
   level: 50,
   rank: "Ouro",
  },
  content: newPostText,
  timestamp: new Date(),
  likes: 0,
  comments: 0,
  shares: 0,
  isLiked: false,
 };
 setPosts([newPost, ...posts]); // Adiciona no início
 setNewPostText(""); // Limpa o campo
 Alert.alert("Sucesso!", "Post publicado na comunidade!");
};
return (
```

```
<Container>
   {/* HEADER */}
   <Header>
    <HeaderTitle>  Comunidade GameHub</HeaderTitle>
    <HeaderSubtitle>Conecte-se com outros gamers/HeaderSubtitle>
   </Header>
   {/* FORMULÁRIO NOVO POST */}
   <NewPostSection>
    <NewPostInput
     placeholder="Compartilhe algo com a comunidade..."
     placeholderTextColor="#888"
     multiline
     value={newPostText}
     onChangeText={setNewPostText}
     maxLength = \{500\}
    />
    <PublishButton onPress={handlePublishPost}>
     <PublishButtonText>  PUBLICAR
    </PublishButton>
   </NewPostSection>
   {/* FEED DE POSTS */}
   < FeedScrollView
    contentContainerStyle={{ paddingBottom: spacing.xl }}
    showsVerticalScrollIndicator={false}
    {posts.map((post) => (}
     <PostCard
      key={post.id}
      post={post}
      onLike={handleLike}
      onComment={handleComment}
      onShare={handleShare}
     />
    ))}
   </FeedScrollView>
  </Container>
 );
// COMPONENTES ESTILIZADOS
```

```
const Container = styled.View`
 flex: 1;
background-color: ${({ theme }: { theme: DefaultTheme }) => theme.background};
const Header = styled.View`
padding: ${spacing.lg}px;
 padding-top: ${spacing.xl}px;
 border-bottom-width: 2px;
 border-bottom-color: ${({ theme }: { theme: DefaultTheme }) => theme.border};
align-items: center;
const HeaderTitle = styled.Text`
 font-size: ${typography.sizes.heading}px;
 font-weight: 700;
color: ${({ theme }: { theme: DefaultTheme }) => theme.primary};
margin-bottom: ${spacing.xs}px;
١.,
const HeaderSubtitle = styled.Text`
 font-size: ${typography.sizes.sm}px;
 color: ${({ theme }: { theme: DefaultTheme }) => theme.textSecondary};
`;
const NewPostSection = styled.View`
padding: ${spacing.md}px;
 background-color: ${({ theme }: { theme: DefaultTheme }) => theme.surface};
border-bottom-width: 1px;
border-bottom-color: ${({ theme }: { theme: DefaultTheme }) => theme.border};
const NewPostInput = styled.TextInput`
 background-color: ${({ theme }: { theme: DefaultTheme }) => theme.background};
border-radius: 12px;
 padding: ${spacing.md}px;
 font-size: ${typography.sizes.md}px;
 color: ${({ theme }: { theme: DefaultTheme }) => theme.text};
 min-height: 80px;
 margin-bottom: ${spacing.sm}px;
border: 1px solid ${({ theme }: { theme: DefaultTheme }) => theme.border};
```

```
const PublishButton = styled.TouchableOpacity`
background-color: ${({ theme }: { theme: DefaultTheme }) => theme.primary};
padding: ${spacing.sm}px ${spacing.md}px;
border-radius: 25px;
align-items: center;
`;

const PublishButtonText = styled.Text`
color: ${({ theme }: { theme: DefaultTheme }) => theme.background};
font-size: ${typography.sizes.md}px;
font-weight: 600;
`;

const FeedScrollView = styled.ScrollView`
flex: 1;
padding: ${spacing.md}px;
`;
```

O que fizemos:

- 1. Criamos dados mockados (simulados) para testar
- 2. Sistema de likes funcional
- 3. Formulário para criar novos posts
- 4. Feed scrollável com todos os posts
- 5. Callbacks para Like, Comment, Share

Estude: Managing State

Passo 4: Sistema de Comentários

Criar componente de comentários



```
import React, { useState } from "react";
import styled, { DefaultTheme } from "styled-components/native";
import { spacing, typography } from "../constants/theme";
import { Comment } from "../types/community";
interface CommentSectionProps {
postId: string;
comments: Comment[];
onAddComment: (postId: string, content: string) => void;
export const CommentSection: React.FC < CommentSectionProps > = ({
postId,
comments,
onAddComment,
}) => {
 const [commentText, setCommentText] = useState("");
 const handleSubmit = () => {
  if (commentText.trim() === "") return;
  onAddComment(postId, commentText);
 setCommentText("");
 };
return (
  <Container>
   <Title> Comentários ({comments.length})</Title>
   {/* LISTA DE COMENTÁRIOS */}
   \{comments.map((comment) => (
    <CommentCard key={comment.id}>
     <CommentAvatar>
      <AvatarText>{comment.author.avatar}</AvatarText>
     </CommentAvatar>
     <CommentContent>
      <CommentAuthor>{comment.author.name}</commentAuthor>
      <CommentText>{comment.content}</CommentText>
     </CommentContent>
    </CommentCard>
   ))}
   {/* CAMPO PARA NOVO COMENTÁRIO */}
```

```
<InputContainer>
    < CommentInput
      placeholder="Escreva um comentário..."
      value={commentText}
      onChangeText={setCommentText}
    />
    <SendButton onPress={handleSubmit}>
      <SendButtonText>▶</SendButtonText>
    </SendButton>
   InputContainer>
  </Container>
 );
};
// Estilos...
const Container = styled.View`
 padding: ${spacing.md}px;
 background-color: ${({ theme }: { theme: DefaultTheme }) => theme.surface};
const Title = styled.Text`
 font-size: ${typography.sizes.lg}px;
 font-weight: 600;
 color: ${({ theme }: { theme: DefaultTheme }) => theme.text};
 margin-bottom: ${spacing.md}px;
const CommentCard = styled.View`
 flex-direction: row;
 margin-bottom: ${spacing.md}px;
const CommentAvatar = styled.View`
 width: 35px;
 height: 35px;
 border-radius: 17.5px;
 background-color: ${({ theme }: { theme: DefaultTheme }) => theme.primary};
 justify-content: center;
 align-items: center;
 margin-right: ${spacing.sm}px;
const AvatarText = styled.Text`
 color: ${({ theme }: { theme: DefaultTheme }) => theme.background};
```

```
font-size: ${typography.sizes.sm}px;
 font-weight: 600;
const CommentContent = styled.View`
 flex: 1:
 background-color: ${({ theme }: { theme: DefaultTheme }) => theme.background};
 padding: ${spacing.sm}px;
 border-radius: 12px;
const CommentAuthor = styled.Text`
 font-size: ${typography.sizes.sm}px;
 font-weight: 600;
 color: ${({ theme }: { theme: DefaultTheme }) => theme.text};
 margin-bottom: 4px;
const CommentText = styled.Text`
 font-size: ${typography.sizes.sm}px;
 color: ${({ theme }: { theme: DefaultTheme }) => theme.textSecondary};
const InputContainer = styled.View`
 flex-direction: row;
 gap: ${spacing.sm}px;
const CommentInput = styled.TextInput`
 flex: 1;
 background-color: ${({ theme }: { theme: DefaultTheme }) => theme.background};
 border-radius: 20px;
 padding: ${spacing.sm}px ${spacing.md}px;
 font-size: ${typography.sizes.sm}px;
 color: ${({ theme }: { theme: DefaultTheme }) => theme.text};
const SendButton = styled.TouchableOpacity`
 width: 40px;
 height: 40px;
 border-radius: 20px;
 background-color: ${({ theme }: { theme: DefaultTheme }) => theme.primary};
 justify-content: center;
 align-items: center;
```

```
const SendButtonText = styled.Text`
color: ${({ theme }: { theme: DefaultTheme }) => theme.background};
font-size: 18px;
`;
```

Passo 5: Adicionar à Navegação

Matualizar_layout.tsx



typescript

⊗ Criar link para a comunidade

Em qualquer tela, adicione:



Melhorias e Próximos Passos

🚀 Funcionalidades Avançadas:

1. Persistência de Dados



typescript

```
import AsyncStorage from '@react-native-async-storage/async-storage';

// Salvar posts
await AsyncStorage.setItem('posts', JSON.stringify(posts));

// Carregar posts
const saved = await AsyncStorage.getItem('posts');
const posts = saved ? JSON.parse(saved) : [];
```

Estude: <u>AsyncStorage</u>

2. Upload de Imagens



```
import * as ImagePicker from 'expo-image-picker';
  const pickImage = async () => {
   const result = await ImagePicker.launchImageLibraryAsync({
    mediaTypes: ImagePicker.MediaTypeOptions.Images,
    allowsEditing: true,
    aspect: [4, 3],
    quality: 1,
   });
   if (!result.canceled) {
    setImage(result.assets[0].uri);
   }
  };
Estude: Expo Image Picker
3. API Backend Real
typescript
  // Conectar com backend
  const fetchPosts = async () => {
   const response = await fetch('https://api.gamehub.com/posts');
   const data = await response.json();
```

Estude: Fetch API

setPosts(data);

4. Notificações Push



};

```
import * as Notifications from 'expo-notifications';
  // Quando alguém comenta no seu post
  await Notifications.scheduleNotificationAsync({
   content: {
    title: "Novo comentário!",
    body: "Alguém comentou no seu post",
   },
   trigger: null,
  });
Estude: Expo Notifications
5. Filtros e Busca
typescript
  const [filter, setFilter] = useState('all'); // 'all', 'liked', 'mine'
  const filteredPosts = posts.filter(post => {
   if (filter === 'liked') return post.isLiked;
   if (filter === 'mine') return post.author.id === currentUserId;
   return true;
  });
Checklist de Aprendizado
```

Básico:

- Entender TypeScript interfaces
- Usar useState para estados
- Criar componentes reutilizáveis
- Estilizar com styled-components
- Passar props entre componentes

Intermediário:

- Gerenciar arrays de objetos
- Implementar CRUD (Create, Read, Update, Delete)
- Usar useContext para temas
- Validação de formulários
- Tratamento de erros

Integração com API Upload de imagens Persistência de dados local Otimização de performance

Recursos Adicionais

Documentação Oficial:

• Notificações push

- React Native Docs
- Expo Docs

Avançado:

• TypeScript Docs

Tutoriais em Português:

- React Native Rocketseat
- Curso React Native YouTube

Comunidades:

- React Native Brasil Discord
- [Stack Overflow em Português](https://pt.stackoverflow.com/questions/tagged/react-